BRUHAT BANGLORE MAHANAGARA PALIKE

DASARAHALLI-ZONE

T.DASARAHALLI.SUB-DIVISION.

Name of Work: Revised Estimate of Desilting and resetting of drain & reasphalting 5th B Cross & 17th Cross and other cross roads at MEI Layout in Ward No 14 Bagalagunte

Revised Est.Cost: 34.87 Lakhs

BRUHAT BANAGLORE MAHANAGARA PALIKE

Excecutive Engineer Dasarahalli Division

DETAILED ESTIMATE

Name of Work:Modified Estimate of Desilting and resetting of drain & reasphalting 5th B Cross

Job Code: 014-18-000071 **Estimate Amount : 34.87 Lakhs**

Sl. No.	Description of Item	Unit / Rate	Nos	Dimensions L in m	B in m	D in m	Quantity	Rate in Rs.	Total Amount in
1	Removing and refixing stone slabs of drains and pointing in CM (1:3)								
	(Page No. 29, I.No. 5.33 of KPWD S.R 2018-19).).								
		sqm							
	Rate Analysis								
	Basic Rate in Rs			105.00					
	Add 6% Area Weightage			6.30					
	Total Rate in Rs.			**111.30**					
	MEI layout								
	7th Cross		2	137.00	0.90		246.60		
	16th cross		2	119.00	0.90		214.20		
	14th Mian		2	113.00	0.90		203.40		
	5th cross		2	130.00	0.90		234.00		
	9th cross		2	120.00	0.90		216.00		
	10th cross		2	86.00	0.90		154.80		
	Police station Back side		2	60.00	0.90		108.00		
							1377.00		
	20% Damaged Slabs						275.40		
							1101.60	**100.00**	**110160.00**
2	KSRRB 300-2. Earthwork excavation by manual means in hard soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3								
	(Page No 143., I.No.19.2of KPWD S.R 2018-19).								
		Cum							
	Rate Analysis								
	Basic Rate in Rs.			179.00					
	Lead calculation for 13.3km ((2x1.28x13.3)+57= 91.048)			91.05					
	Add 6% Area Weightage			10.74					
	Total Rate in Rs.			**280.79**					
	Desilting of Drain								
	MEI layout								
	7th Cross		2	137.00	0.45	0.40	49.32		
	16th cross		2	119.00	0.45	0.40	42.84		
	14th Mian		2	113.00	0.45	0.40	40.68		
	5th cross		2	130.00	0.45	0.35	40.95		
	9th cross		2	120.00	0.45	0.30	32.40		
	10th cross		2	121.00	0.45	0.30	32.67		
	Police station Back side		2	90.00	0.45	0.30	24.30		
	Road Work								
	7th Cross		1	137.00	1.20	0.20	32.88		
	16th cross		2	119.00	0.90	0.20	42.84		
	14th Mian		2	113.00	0.90	0.20	40.68		
	5th cross		2	130.00	0.80	0.20	41.60		
	9th cross		2	120.00	0.75	0.20	36.00		
	10th cross		2	121.00	0.75	0.20	36.30		
	Police station Back side		2	90.00	0.80	0.20	28.80		
							518.40	**270.00**	**139968.00**
3	KSRB 15.2.1 Providing flush pointing to stone slab pavements, with cement mortar 1:3, after raking joints, nicely lining, including cost of materials, labour, curing complete as per specifications.								

		Sqm							
	(Page No & I.No.15.70 of KPWD S.R 2018-19).								
	Rate Analysis								
	Basic Rate in Rs.			44.00					
	Add 6% Area Weightage			2.64					
	Total Rate in Rs.			**46.64**					
	MEI layout								
	7th Cross		2	89.00	0.90		160.20		
	16th cross		2	85.00	0.90		153.00		
	14th Mian		2	90.00	0.90		162.00		
	5th cross		2	75.00	0.90		135.00		
	9th cross		2	90.00	0.90		162.00		
	10th cross		2	86.00	0.90		154.80		
	Police station Back side		2	60.00	0.90		108.00		
							1035.00	**33.00**	**34155.00**
4	Providing precast slab of 100 mm thick including cost of all materials, labour, curing,transportation,loading ,unloading,etc.,complete as per the direction of engineer in charge								
	Data Rate								
		sqm							
	Total Rate in Rs	*2337.00*							
		for damges							
	20% Damaged Slabs in Qty Item No.1						275.40		
	Cross road		1	60.00	0.90		54.00		
							227.40	**2200.00**	**500280.00**
5	KSRRB 300-Compaction KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3								
	Basic Rate	6.00							
	AW@ 6%	0.36							
	Total	**6.36**							
	Camber Correction of road								
	MEI layout								
	7th Cross	1	137.00	1.20		164.40			
	16th cross	2	119.00	0.90		214.20			
	14th Mian	2	113.00	0.90		203.40			
	5th cross	2	130.00	0.80		208.00			
	9th cross	2	120.00	0.75		180.00			
	10th cross	2	121.00	0.75		181.50			
	Police station Back side	2	90.00	0.80		144.00			
				Total		**1296.00**	**5.00**	**Sqm**	**6480**
6	KSRRB M400- Wet Mix Macadam KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 (P.No.155 I.No.20.18)								
	Basic Rate	**1888.00**							
	AW 6%	**113.28**							
	Total	**2001.28**							
	Camber Correction of road								

MEI layout									
7th Cross	1	137.00	1.20	0.12	19.73			
16th cross	2	119.00	0.90	0.12	25.70			
14th Mian	2	113.00	0.90	0.12	24.41			
5th cross	2	130.00	0.80	0.12	24.96			
9th cross	2	120.00	0.75	0.12	21.60			
10th cross	2	121.00	0.75	0.12	21.78			
Police station Back side	2	90.00	0.80	0.12	17.28			
					155.25	**1800.00**	**Cum**	**279450**
7	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. MORTH Specification No. 502 (P.No.158 I.No.21.6)**Issue Basic Rate Date;02.11.2021 to till now**								
	Basic Rate	**32.00**							
	AW 6%	**1.92**							
	Total	**33.92**							
	Camber Correction of road								
	MEI layout								
	7th Cross	1	137.00	1.20		164.40			
	16th cross	2	119.00	0.90		214.20			
	14th Mian	2	113.00	0.90		203.40			
	5th cross	2	130.00	0.80		208.00			
	9th cross	2	120.00	0.75		180.00			
	10th cross	2	121.00	0.75		181.50			
	Police station Back side	2	90.00	0.80		144.00			
						1296.00	**30.00**	**Sqm**	**38880**
8	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH specification clause 501 (P.No.158 I.No.21.2)								
	Basic Rate	**6.00**							
	AW 6%	**0.36**							
	Total	**6.36**							
	Camber Correction of road								
	MEI layout								
	7th Cross	1	137.00	7.00		959.00			
	16th cross	1	119.00	5.50		654.50			
	14th Mian	1	113.00	6.50		734.50			
	5th cross	1	130.00	4.80		624.00			
	9th cross	1	120.00	3.90		468.00			
	10th cross	1	121.00	3.90		471.90			
	Police station Back side	1	90.00	4.60		414.00			
						4326.00	**5.00**	**Sqm**	**21630**
9	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH/Chapter 5								
	Issue Basic Rate Date;02.11.2021 to till now	**12.00**							
	AW 6%	**0.72**							
	Total	**12.72**							

	7th Cross	1	137.00	7.00		959.00			
	16th cross	1	119.00	5.50		654.50			
	14th Mian	1	113.00	6.50		734.50			
	5th cross	1	130.00	4.80		624.00			
	9th cross	1	120.00	3.90		468.00			
	10th cross	1	121.00	3.90		471.90			
	Police station Back side	1	90.00	4.60		414.00			
						4326.00	**10.00**	**Sqm**	**43260**
10	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications.. MORTH Specification No. 507 - using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No.161 I.No.21.17.6) **Issue Basic Rate Date;02.11.2021 to till now**									
	Basic Rate	**8062.00**							
	AW 6%	**483.72**							
	Total	**8545.72**							
	Camber Correction of road								
	MEI layout								
	7th Cross	1	137.00	1.20	0.05	8.22			
	16th cross	2	119.00	0.90	0.05	10.71			
	14th Mian	2	113.00	0.90	0.05	10.17			
	5th cross	2	130.00	0.80	0.05	10.40			
	9th cross	2	120.00	0.75	0.05	9.00			
	10th cross	2	121.00	0.75	0.05	9.08			
	Police station Back side	2	90.00	0.80	0.05	7.20			
						64.80	**8100.00**	**Cum**	**524880**
11	KSRRB M500-19. Providing and laying bituminous concrete using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 509 complete in all respects complete as per specifications. - using40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 45 mm) with 6 % CRMB 55 (P.No.158 I.No.21.23.6) **Issue Basic Rate Date;02.11.2021 to till now**									
	Basic Rate	**9617.00**							
	AW 6%	**577.02**							
	Total	**10194.02**							
	MEI layout								
	7th Cross	1	137.00	7.00	0.04	38.36			
	16th cross	1	119.00	5.50	0.04	26.18			
	14th Mian	1	113.00	6.50	0.04	29.38			
	5th cross	1	130.00	4.80	0.04	24.96			
	9th cross	1	120.00	3.90	0.04	18.72			
	10th cross	1	121.00	3.90	0.04	18.88			
	Police station Back side	1	90.00	4.60	0.04	16.56			
						173.04	**10000.00**	**Cum**	**1730360**
12	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803 (P.No.185 I.No.24.15)								
	Basic Rate	**429.00**							
	AW 6%	**25.74**							
	Total	**454.74**							

MEI layout								
7th Cross	2	137.00		0.10	27.40			
16th cross	2	119.00		0.10	23.80			
14th Mian	2	113.00		0.10	22.60			
5th cross	2	130.00		0.10	26.00			
9th cross	2	120.00		0.10	24.00			
10th cross	2	121.00		0.10	24.20			
Police station Back side	2	90.00		0.10	18.00			
					144.00	**400.00**	**Sqm**	**57600.00**
							Sub Total	**3487103.00**

Sanctioned Tender Amount RS **3711543.00**
Modified Estimate Cost Rs **3487103.00**
GST amount 18% **627678.54**
Savings **385218.46**
4500000.000

Assistant Engineer
Ward No.14

Assistant Executive engineer
Dasarahalli Sub-Division

Executive Engineer
Dasarahalli Division

Technically Sanctione for Rs 34.87 lakhs/-
Rs. In words Rs. Thirty four lakhs eighty seven thousand one Hundred Under three only (34,87,103/-)
R-3292
Job Code No. 014-18-000071
Registered as Cl No. 30/2022-23 Subject to conditions contained in Revised Memo No. CE/DP1T3/30/2022-23 Dt: 03/02/2023
AE/JE 03/02
CE(D)